State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-20-81 Relating to Certification of New Motor Vehicles

ISUZU MOTORS LIMITED

Pursuant to the authority vested in the Air Resources Board by the Health and Safety Code, Division 26, Part 5, Chapter 2; and

Pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Orders G-45-3 and G-45-4:

IT IS ORDERED AND RESOLVED: That 1989 model-year Isuzu Motors Limited exhaust emission control systems are certified as described below for gasoline-powered light-duty trucks:

Engine Family	Displacement <u>Liters (Cubic inches)</u>	Exhaust Emission Control Systems (Special Features)
KSZ138T2FBA6	2.3 (138)	Air injection - Pump Exhaust Gas Recirculation Oxygen Sensor Three-Way Catalyst On-Board Diagnostics (Exempted)

Vehicle models, transmissions, engine codes and evaporative emission control families are listed on attachments.

The following are the emission standards for this engine family:

Loaded Vehicle Weight(lbs.)	Hydrocarbons	Carbon Monoxide	Nitrogen Oxides
	(Grams per Mile)	(Grams per Mile)	(Grams per Mile)
0-3750	0.41	9.0	1.0

The following are the certification emission values for this engine family:

Loaded Vehicle Weight(ibs.)	Hydrocarbons	Carbon Monoxide	Nitrogen Oxides	
	(Grams per Mile)	(Grams per Mile)	(Grams per Mile)	
0-3750	0.24	4.1	0.5	

BE IT FURTHER RESOLVED: That the listed models are certified to the optional NOx emission standard thereby making the vehicle manufacturer subject to Section 1960.1.5 of Title 13, California Administrative Code which includes recall liability for emission control components up to 7 years or 75,000 miles if found defective by the Executive Officer.

BE IT FURTHER RESOLVED: That the vehicle manufacturer is certifying to the optional NOx standards by providing evidence that there are sufficient projected sales of vehicles certifying to the primary NOx standard, or is allowed a delay in implementation under small volume manufacturer provisions, or is allowed a delay in implementation under small volume manufacturers provisions, or is allowed a delay in implementation under the "in lieu" standards, or is certifying passenger cars weighing more than 5250 lbs. loaded vehicle weight.

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Gasoline-Powered Motor Vehicles".

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's "Specifications for Fill Pipes and Openings of Motor Vehicle Fuel Tanks" (Title 13, California Administrative Code, Section 2290) for the aforementioned model—year.

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's high altitude requirements and highway emission standards as stipulated in "California Exhaust Emission Standards and Test Procedures for 1988 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles".

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the "California Motor Vehicle Tune-Up Label Specifications" (Title 13, California Administrative Code, Section 1965) for the aforementioned model year.

BE IT FURTHER RESOLVED: That the vehicle models listed have been granted an exemption from compliance with the requirements of the "Maifunction and Diagnostic System for 1988 and Subsequent Model Year[s]..." (Title 13, California Administrative Code, Section 1968) for the aforementioned model year.

BE IT FURTHER RESOLVED: That for the listed vehicles, the manufacturer has submitted and the Executive Officer hereby approves the materials to demonstrate certification compliance with the Board's emission control system warranty regulations (Title 13, California Administrative Code, Section 2035 <u>et seq.</u>), and with the 2 year/24,000 mile warranty provisions of Health and Safety Code Section 43204.

Vehicles certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this order and attachment.

Executed at El Monte, California this 13

_ day of September, 1988.

K. D. Drachand, Chief Mobile Source Division

E.O. # A-ZO-SI

1989 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

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Manufacturer ISUZU MOTORS LIMI		LIMITED		Engine Fa	mily	KSZ138T2	FBA6
Evaporative FamilyCAN		-E		Engine Ty	pe	L4	
				Liters (C	ID)	2.3 (138)
ABBREVIATIONS							
Ignition System		Exhaust	Emiss	ions Contr	ol System	Special Fe	atures
CA-Centrifugal Add ECU-Electronic Con EI-Electronic Ign ESAC-Electronic S Control VA-Vacuum Advance VR-Vacuum Retard Fuel System CFI, EPFI, MPFI, DID, DIP, HOS, OS nV-nVenturi Carbu VV-Variable Ventu	ntrol Unit ition park Advance SFI, retor	AIV-Air EGR-Exha EIC-Elec (Di EM-Engir SPL-Smok Thrott TOC-Trap TOP-Trap DBC-Dua OC-Oxida TWC-Thre WUOC-Wan WUTWC-Wan OS-Oxyge	Injecaust Gaust Getroniiesel Modke Puftle Depuggeralungen Bedarm-Uparm-Upen Sen	ification f Limiter lay izer, Coni izer, Per Catalyst Catalyst Catalyst Oxidation Three-Way	ve clation on Control or tinual iodical Catalyst y Catalyst	Throt Inject Inject EPFI-Elect Fuel MPFI-Mecha Fuel SFI-Sequer Inject DID-Diesel Direct TC-Turbock SC-Superch IC-Interco After CCV-Combus	ttion or ttle Body ttion cronic Port Injection nical Port Injection ttial Fuel ttion I Injection- amber namber narger cooler oction Chamber
VEHICLE MODELS:							
Isuzu PICKUP Isuzu AMIGO		KB-L2:	Picku Picku	p Truck 21	WD (Std cab WD (Std cab WD (Ext cab e 2WD	LWB)	
Engine: Front	X Mid RWD			Rear		4WD Par	rt Time

1989 A	AIR	RESOURCES	BOARD	SUPPLEMENTAL	DATA	SHEET

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Passenge	r Cars Ligh	ht-Duty Tr	ucks X	Medium-Duty	Vehicles	Gas X I	iesel
Manufacturer ISUZU MOTORS LIMITED		Engine F	amily	KSZ138T2FBA6			
Liter (C	ID)	2.3 (138))	Eng.	Туре	L4	· · · · · · · · · · · · · · · · · · ·
Emission	Control Sys. (Sp	oecial Feat	tures)	AIP, EGR,	OS, TWC		
Engine Code	Vehicle Models (If Coded see attachment) (Dyno Hp)	Trans. Type	Equiv. Test Weight	Ign. System (ECU) CA, VA Part No. Distributor	Fuel System 2V Part No. Carburetor	EGR Valve	Catalyst Part No.
BA-1	KB-L1, KB-L2 (13.1)	M-5	3,125	8943377840	8943659450	8941224780	8251015450
	KB-L3 (13.1)		3,250				
	WB-L3 (14.7)		3,375				

Comments: See page one for abbreviations and evaporative emission family identification. Please refer to manufacturer's HP list for correct dyno test HP settings based on model and equipment. If two test weights are listed, the lower weight will be used for testing.

Date	of	Issue	Revisions: